

CITY OF HAYWARD

AGENDA REPORT

AGENDA DATE 09/11/01

AGENDA ITEM 6

WORK SESSION ITEM

TO: Mayor and City Council

FROM: Director of Public Works

SUBJECT: Authorization for the City Manager to Execute a Professional Services Agreement For the Design of the North Walpert Reservoir Intertie and Seismic Upgrade

RECOMMENDATION:

It is recommended that the City Council approve the attached resolution that authorizes the execution of an agreement with HydroScience Engineers, Inc., for professional design services for the North Walpert Reservoir intertie and seismic upgrade.

BACKGROUND:

The recently completed Walpert booster Pump Station is designed to pump water from the 5.3 million gallon South Walpert Reservoir to the Highland 500 Reservoir. During construction of the station, provision was made to connect an intertie from the North Walpert Reservoir to the Walpert booster pumps.

Completing the intertie will allow the Walpert Booster Pumps to pull water from either the North or the South reservoirs or in combination thereof. This will provide additional storage that can be fed into the Highland Reservoir Chain during an emergency and will also convert the North Walpert reservoir to a flow-through storage tank, improving water quality.

Dames and Moore, a consulting engineer firm, in 1995 provided a seismic evaluation of Hayward's utilities infrastructure. In their report, Dames and Moore recommended further seismic evaluation as well as design and implementation of specific roof and roof-column connections at the North Walpert Reservoir.

Combining some of the recommended seismic work, the roof support members and column connections, with the pipeline intertie construction will realize efficiency for water delivery operations since the reservoir will only have to be taken out of service one time.

Consultant Selection:

Staff requested that three firms submit proposals for the design. Two of the three firms responded to the City's request. HydroScience Engineers was selected as the most qualified firm. The selection was based on a review of: (1) the relevant experience of each firm; (2) the

experience and qualifications of the project manager and design team of each firm; (3) the method of work proposed by each firm; (4) the resources, project controls, and quality assurance of each firm, and (5) reasonableness of cost. The proposed fee for HydroScience Engineers is \$13,869 less than the competing proposal.

HydroScience has proposed using two subconsultants. One, Integrated Design Group, is MBE qualified, and will perform the seismic design. The proposed cost for Integrated Design Group represents 42 percent of the total contract value.

Project Cost:

The estimated project costs are:

Design and administration	\$75,000
Construction	\$200,000
Construction administration and inspection	\$15,000
Total	<u>\$290,000</u>

Funding:

The adopted Capital Improvement Program includes a total of \$75,000 in the Water System Capital Improvement Fund for the pipeline intertie. The seismic upgrade work was originally anticipated to occur in 2002-03 and funds have been programmed for that year. As stated earlier, it is now recommended that a portion of the seismic work be done this year for efficiency reasons. The additional funds needed for construction will be requested from the Water System Capital Improvement Fund balance, at the time of project award.

Schedule:

The following schedule has been developed for this project:

Begin design	October 1, 2001
Design completion	December 14, 2001
Award construction contract	February 28, 2002
Construction completion	April 31, 2002


The attached resolution authorizes the City Manager to execute an agreement with the consulting firm HydroScience Engineers for a maximum amount not to exceed \$60,000 for design and additional services.

Prepared by:



Alex Ameri, Deputy Director of Public Works

Recommended by:



for Dennis L. Butler, Director of Public Works

Approved by:



Jesús Armas, City Manager

Attachment: Exhibit A - Project Location Map

DRAFT

NH 8/29/01

HAYWARD CITY COUNCIL

RESOLUTION NO. _____

Introduced by Council Member _____

RESOLUTION AUTHORIZING THE CITY MANAGER
TO EXECUTE AN AGREEMENT BETWEEN THE CITY
OF HAYWARD AND HYDROSCIENCE ENGINEERS
INC., FOR PROFESSIONAL DESIGN SERVICES FOR
THE NORTH WALPERT RESERVOIR

BE IT RESOLVED by the City Council of the City of Hayward that the City Manager is hereby authorized and directed to execute on behalf of the City of Hayward an agreement with HydroScience Engineers, Inc., for professional design services to intertie the North Walpert Reservoir to the Walpert Booster Pumps, and provide connection in the North Walpert Reservoir, in an amount not to exceed \$60,000, in a form to be approved by the City Attorney.

IN COUNCIL, HAYWARD, CALIFORNIA _____, 2001

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSTAIN:

ABSENT:

ATTEST: _____
City Clerk of the City of Hayward

APPROVED AS TO FORM:

City Attorney of the City of Hayward